

MERAMEC RIVER BASIN

07010500 MARAMEC SPRING NEAR ST. JAMES, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°57'20", long 91°31'57", NW 1/4 SE 1/4 sec.1, T.37 N., R.6 W., Phelps County, Hydrologic Unit 07140102. Site is at Maramec Spring Park, about 5 mi east of St. James on Highway 8.

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	TEMPER-ATURE WATER (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (mg/L) (00340)	COLI-FORM, FECAL, 0.7 µm-MF (COLS./100 mL) (31625)	STREP-TOCOCCHI, KF AGAR (COLS. PER 100 mL) (31673)	ALKA-LINITY WAT WH TOT FET FIELD (mg/L as CaCO ₃) (00410)
NOV 1996											
13...	1330	210	13.5	196	7.27	8.30	78	--	165	490	91
JAN 1997											
30...	0915	310	12.5	239	7.09	9.40	89	<10	110	100	123
MAR											
10...	1045	320	12.0	181	6.62	9.60	90	--	22	37	82
APR											
01...	0840	240	12.5	195	6.43	8.10	75	--	27	21	89
JUN											
19...	1330	380	13.5	192	7.16	9.60	91	14	285	--	81
AUG											
19...	1035	140	14.5	316	7.38	7.70	74	--	230	315	149
DATE		BICAR-BONATE WATER WH IT FIELD (mg/L as HCO ₃) (00450)	CAR-BONATE WATER WH IT FIELD (mg/L as CO ₃) (00447)	NITRO-GEN, NO ₂ +NO ₃ TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	HARD-NESS TOTAL (mg/L as CaCO ₃) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)
NOV 1996											
13...		109	0	0.650	<0.010	0.010	0.23	0.020	0.020	--	--
JAN 1997											
30...		154	0	0.630	<0.010	<0.010	<0.20	<0.020	0.020	110	24
MAR											
10...		103	0	0.610	<0.010	0.020	<0.20	0.040	0.020	--	--
APR											
01...		110	0	0.550	<0.010	0.010	<0.20	<0.020	0.010	--	--
JUN											
19...		97	0	0.480	<0.010	0.020	0.28	<0.020	0.020	95	20
AUG											
19...		185	0	0.710	<0.010	0.030	<0.20	<0.020	0.030	--	--
DATE		MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)	SULFATE DIS-SOLVED (mg/L as SO ₄) (00945)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
JAN 1997											
30...		13	3.3	1.2	6.3	7.1	<0.10	144	3	230	4.3
JUN											
19...		11	1.9	1.2	5.0	5.0	<0.10	108	6	330	75
DATE		CADMIUM TOTAL RECOV-ERABLE (µg/L as Cd) (01027)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)
JAN 1997											
30...		<1	<1.0	<1.0	20	<1	<1.0	0.50	<0.10	1	<1.0
JUN											
19...		<1	<1.0	<1.0	50	<1	<1.0	2.9	<0.10	<1	<1.0